

Polyolefin wax and printing ink compsns. for coating matreial and their ase**Publication number:** CN1415677**Publication date:** 2003-05-07**Inventor:** HIDEO TOYOTA (JP)**Applicant:** MITSUI CHEMICALS INC (JP)**Classification:****- International:** **C09D123/08; C09D123/32; C08L23/08; C08L23/32; C09D123/00; C08L23/00; (IPC1-7): C09D123/16; C09D11/10****- European:** C09D123/08A1; C09D123/32**Application number:** CN20021046703 20021031**Priority number(s):** JP20010334636 20011031; JP20010383285 20011217**Also published as:**

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A polyolefin wax for a coating material which includes an ethylene (co)polymer having a number-average molecular weight within the range of from 400 to 5000 as measured by gel permeation chromatography. The polyolefin wax has a volume average particle diameter in the range of from 0.3 μm to 20 μm wherein the relation between a particle diameter a (μm), in which the weight ratio of the large particle diameter side in weight particle-size distribution is 10%, and a particle diameter b (μm), in which the weight ratio of the small particle diameter side in weight particle size distribution is 10%, satisfies the $a/b \leq 4$ and the relation between the crystallization temperature T_c (DEG C.), measured at a cooling rate of 2 DEG C./min) as measured by differential scanning calorimetry (DSC) and the density D (kg/m^3) as measured by the density gradient tube method satisfies the equation $0.501 \times D - 366 \geq T_c$. A printing ink composition the polyolefin wax and an liquid dispersion containing particles of an ethylene polymer composition are also set forth.

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